# Brian Marks

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## Education

New York University – Tandon School of Engineering (previously Brooklyn Poly)          May 2016
**B.S. in Computer Science with Minors in Mathematics and Physics**
**Cumulative GPA: 3.8 – Magna Cum Laude**

- Related Coursework: Machine Learning, Artificial Intelligence, Data Structures and Algorithms
- Dean's List – All Semesters
- Worked as a Teaching Assistant and a TRIO tutor

## Skills

*Knowledgeable in*
- Python
- C++
- MATLAB
- SQL
- Data science
- Machine Learning
- Parallel Programming

*Comfortable with*
- Django
- PHP
- C#
- Ksh and Awk
- Scientific Computing
- Web Scraping
- Quantum Computing

*Exposure to*
- Java
- Cryptography
- Cloud Computing
- Web Development
- HTML
- JavaScript
- CSS

## Professional Experience

**Nokia**                          *Software Engineer Co-op*                          June 2015 – Present
- Improved the software development environment with various tools and utilities, primarily in Python
- Gathered requirements from users across several departments
- Maintained several tools using Perl, Ksh, and Awk to analyze data from configuration management
- Developed a web service using PHP, JS, and HTML to display reports mimicking that of pivot tables
- Created a Python application to visualize large GNU Makefiles to assist debugging and parallelization
- Designed a Python application to parse large log files and perform data analysis and visualization
- Prototyped a Python application to find broken links in source code and suggest possible fixes
- Executed functional, regression, and system testing for various applications
- Presented applications to executives and created training material for employees

**Ford Foundation**                          *Technical Consultant*                          June 2013 – December 2014
- Automated server management, application deployment, and report generation using Python
- Introduced an application to scrape information from several websites to perform data analysis
- Assisted in the maintenance of SQL stored procedures when change requests were received
- Documented software and configuration changes for future developers

**NYC Department of Education**                          *Help Desk Support*                          September 2010 – June 2012
- Provided hardware, software, and networking support to over 1300 computers and 5000 users
- Supervised the deployment and repair of computer systems when the manager was not present

## Projects

- Senior project –  Website to match gamers using machine learning techniques (best project in class)
- Machine learning – Classify articles written by the New York Times using unigram and bigram models
- Artificial intelligence – Play Pacman using tree search, optimization, and machine learning algorithms